

Date: April 24 2020

Location: Yukon College (Room TBD)

Duration of contest: 6 hours – starting at 9 am

CONTEST INTRODUCTION

Competition is to assess the contestant's knowledge and skills in the installation of a plumbing system with high regard to the aspects of quality workmanship, proficiency of pipe joinery techniques and accuracy of work within as specified time frame.

SKILLS AND KNOWLEDGE TO BE TESTED

Mathematical problem solving, safe work practices, proper use of tools, correct pipe assembly techniques, blueprint and/or specification interpretation ability and a strong positive work ethic.

PROJECT DESCRIPTION

Tasks that may be performed during the contest

- *Applying mathematical concepts involving parallel, 60, 45, 22 ½ ° offsets.1*
- *Interpreting and applying the blueprint specifications, product specifications and shop drawings*
- *Submit isometric drawings and material list for assessment*
- *Assembly of various pipe and fitting systems*
- *Interpreting NRC plumbing code (2015 edition)*
- *Copper – soft soldering (lead free with water based flux)*
- *Plastic ABS drainage*

- *Bending of copper tube using mechanical benders*
- *Apply safe work practices*
- *All dimensions shall be in millimeters • All dimensions will be taken from the designated centerline or benchmarks (datum lines)*

EQUIPMENT, MATERIAL, CLOTHING

Equipment and material provided by Skills Canada Yukon:

- All tools shall be provided
- All materials shall be provided
- Additional PPE (ear protection, safety glasses, gloves etc.)

Equipment and material provided by the competitor:

- PPE (listed below)
- Competitor **may** provide their own metric measuring tape

SAFETY REQUIREMENTS

Required clothing provided by the competitor

- *Steel toe work boots*
- *High visibility vest*
- *Long sleeve clothing (for soldering)*
- *No jewelry*
- *Long hair must be tied back and concealed*

EVALUATION CRITERIA

Accuracy of drawing	/5
Installation conforms to plan	/25
Drainage:	/25
Water lines:	/25
Piping Installation assessment	/25
Safety	/10
Materials	/10

Full points for dimension within 2mm Half points deduction for dimension more than 2 to 4mm.
No points awarded for dimensions more than 4mm. One-point deduction for each additional material item requested.

TECHNICAL COMMITTEE INFORMATION

National Technical Committee Yukon Representative:

Dan Scobie